



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040357	MCM001-VU	16	1	2% 10 Net 30	MT-O1-R0.500	Tool Steel Round Bar 0.500 dia.			12	7/16/2018	12		S091508	Stock	7/12/2018	\$ 2.87 / ft	0		\$34.44	McMaster-Carr Supply Co.
										<b>Total:</b>	<b>12</b>								<b>\$34.44</b>	

Plex 7/12/2018 5:39 PM dart.Tollis.Andrew

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO040357**  
  
Order Placed By  
**Diane Baker**

McMaster-Carr Number  
**5644494-01**

Page 1 of 2

06/28/2018

Line	Product	Ordered	Shipped
16	8893K1 Tight-Tolerance Multipurpose O1 Tool Steel Rod, 0.5000" Diameter, 6 Feet Long	2 Each	2

Shipped separately from our Cleveland warehouse on 06/28

1	98023A036 Zinc Yellow-Chromate Plated Grade 8 Steel Washer for 3/4" Screw Size, 0.812" ID, 1.469" OD	1 Pack	1
2	91102A740 Zinc-Plated Steel Split Lock Washer for Number 10 Screw Size, 0.2" ID, 0.334" OD	1 Pack	1
3	51495K116 Nickel-Plated Brass Push-to-Connect Tube Fitting for Air, Straight Connector, for 1/2" Tube OD	12 Each	12
5	90685A110 High-Strength Steel Hex Nut, Class 10, M12 x 1.75 mm Thread	1 Pack	1
6	92383A202 400 Series Stainless Steel Slotted Spring Pin, 3/32" Diameter, 3/8" Long	1 Pack	1
7	95065A150 Top-Lock Distorted-Thread Locknut, Medium-Strength Steel, Grade 5, 1/4"-20 Thread Size	1 Pack	1
8	95327A708 Zinc Yellow-Chromate Plated Steel Hex Head Screw, High-Strength, M12 x 1.75 mm Thread, 100 mm Long	5 Packs	5
9	97524A032 Sealing Blind Rivets, Aluminum, Domed Head, with Aluminum Mandrel, 1/8" Diameter, 0.425" Long	4 Packs	4
10	98381A542 Dowel Pin, Alloy Steel, 1/4" Diameter, 1" Long	1 Pack	1
11	99142A410 Internal Retaining Ring, Black-Phosphate Steel, for 13/16" ID	1 Pack	1
12	2092A42 Plunger-Style Variance Indicator, Plus/Minus Dial, Plain, 0" to 1" Range, AGD Group 2	2 Each	2
13	90145A510 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 1" Long	2 Packs	2

# Packing List

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

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Page 2 of 2

06/28/2018

Line	Description	Ordered	Shipped
14	<b>98381A545</b> Dowel Pin, Alloy Steel, 1/4" Diameter, 1-3/8" Long	<b>1</b> Pack	<b>1</b>
15	<b>7216K6</b> Hinged Straight-Blade Housing, 3-Slot Socket, NEMA 5-15, Yellow	<b>10</b> Each	<b>10</b>
17	<b>69525K14</b> Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 0.11" Wide x 0.02" Thick Tab	<b>1</b> Pack	<b>1</b>
18	<b>6381K171</b> Multipurpose SAE 660 Leaded Bronze Sleeve Bearing for 3/4" Shaft Diameter and 7/8" Housing ID, 1" Long	<b>20</b> Each	<b>20</b>

## Expected to ship

4	<b>8547K893</b> Tube Made From PTFE, 1" OD X 1/2" ID	<b>48</b> Feet	<b>48</b> Jul 5-12
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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO040357

**Supplier:** MCM001-VU  
McMaster-Carr Supply Co,  
P.O. Box 7690  
Chicago, IL 60680-7690 USA  
Phone: 330 995 5500  
Fax: 330 995 9600

**PO No:** PO040357  
**PO Date:** 6/28/18  
**Due Date:** 6/29/18  
**Purchase Order  
Revision:**  
**Revision Date:**  
**Ship-To Contact:** Phone:

**E-MAILED**  
JUN 28 2018  
Revised  
4

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground  
**Pynt Terms:** 2% 10 Net 30  
**Freight Terms:**  
**Special Comments:**

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		98023A036	20/PK	Lifting Bolt Washer	Firmed	6/29/18	20 pcs	0 pcs	20 pcs	\$0.543/pcs	\$10.86
2		C10-21-4	91102A740 100/p	Lock Washer	Firmed	6/29/18	100 Ea	0 Ea	100 Ea	\$0.0113/Ea	\$1.13
3		51495K116	1/pk	COUPLING 1/2" NCKL PLTD BRASS PUSH TO CONNECT TUBE FITTING COUPLING	Firmed	6/29/18	12 Ea	0 Ea	12 Ea	\$7.78/Ea	\$93.36
4		8547K45	6 ft long	Tube ALT. P/N 8547K893	Firmed	6/29/18	48 ft	0 ft	48 ft	\$34.25/ft	\$1,644.00
5		90685A110	25/pk	Hex Nut M12 X 1.75mm	Firmed	6/29/18	25 Ea	0 Ea	25 Ea	\$0.3808/Ea	\$9.52
6		92383A202	50/pk	Roll Pin	Firmed	6/29/18	50 pcs	0 pcs	50 pcs	\$0.1896/pcs	\$9.48
7		95065A150	50/pk	Distorted Thread Lock Nut	Firmed	6/29/18	50 pcs	0 pcs	50 pcs	\$0.1896/pcs	\$9.48
8		95327A708	5/pk	Hex Head Screw M12 X 1.75mm x 100mm LG. (Mcmaster)	Firmed	6/29/18	25 Ea	0 Ea	25 Ea	\$2.346/Ea	\$58.65
9		97524A032	100/pk	Sealing Blind Rivet	Firmed	6/29/18	400 Ea	0 Ea	400 Ea	\$0.0982/Ea	\$39.28
10		98381A542	25/pack	Dowel Pin	Firmed	6/29/18	25 Ea	0 Ea	25 Ea	\$0.2784/Ea	\$6.96
11		99142A410	50/pk	Internal Snap Ring	Firmed	6/29/18	50 pcs	0 pcs	50 pcs	\$0.1896/pcs	\$9.48
12		AGD-2	2092A42 1/pk	1" Dial Indicator 0" to 1" Range	Firmed	6/29/18	2 Ea	0 Ea	2 Ea	\$90.45/Ea	\$180.90
13		C45-11-2	90145A510 20/pk	Locating Pin	Firmed	6/29/18	40 Ea	0 Ea	40 Ea	\$0.4035/Ea	\$16.14
14		C45-5-1	98381A545 25/pk	Lever Stop Pin	Firmed	6/29/18	25 Ea	0 Ea	25 Ea	\$0.4452/Ea	\$11.13
15		EL-PLUG-F		3-Prong Female Spade Plug	Firmed	6/29/18	10 Ea	0 Ea	10 Ea	\$12.23/Ea	\$122.30



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Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
			7216k6 1/pk color yellow								
16		MT-O1-R0.500	8893K1 6 FT	Tool Steel Round Bar 0.500 dia.	Firmed	6/29/18	12 ft	0 ft	12 ft	\$2.87/ft	\$34.44
17		SWA6A-2000	69525K14 100 / per pk	1/8" Female Spade Connector	Firmed	6/29/18	100 Ea	0 Ea	100 Ea	\$0.0676/Ea	\$6.76
18		C45-15-13	6381K171 1/pk	Sleeve	Firmed	6/29/18	20 Ea	0 Ea	20 Ea	\$2.68/Ea	\$53.60
Grand Total:										\$2,317.47	

## Order Notes

Procurement Quality Clauses  
A005 RIGHT OF ENTRY  
A016 PERSONNEL QUALIFICATION  
A026 CERTIFICATION OF MATERIAL CONFORMANCE  
A032 DOCUMENT SPECIAL REQUIREMENTS  
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS  
A040 NOTIFICATION OF QUALITY ESCAPE  
A041 QUALITY MANAGEMENT SYSTEM  
A042 DART NOTIFICATION BY SUPPLIER  
A043 RETENTION OF QUALITY DOCUMENTS  
  
A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM  
A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/28/18 1:58 PM dart.baker.diane

Tight-Tolerance Multipurpose O1 Tool Steel Rod  
0.5000" Diameter



Material	O1 Tool Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	0.5"
Diameter Tolerance	-0.001" to 0.001"
Tolerance Rating	Tight
Yield Strength	50,000 psi
Temper Rating	Softened (Annealed)
Hardness	Rockwell B90
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature Range	Not Rated
Specifications Met	ASTM A681
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	$7.1 \times 10^{-6}$
Elongation	25%
Material Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%
Manganese	1.00-1.40%
Nitrogen	0.40-0.60%

Phosphorus	0-0.030%
Silicon	0-0.50%
Sulfur	0-0.030%
Tungsten	0.40-0.60%
Vanadium	0-0.30%
Length	1 ft., 3 ft., 6 ft.
Additional Specifications	Guidelines for Heat Treating Tool Steel
RoHS	Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion.

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI O1 TOOL STEEL ROUND BAR

SPECIFICATION: DIN 1.2510 or B.S. BO 1 or  
SAE J437 or SAE J438  
or UNS T31501 or ASTM A681

PART NUMBER:

MT-O1-R (D.DDD)  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = MT-O1-R0625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	VM

<b>DART</b> AEROSPACE		Headquarters, Ontario, Canada	
AISI O1 TOOL STEEL ROUND BAR			
PART NO.		MT-O1-R	
DESIGN BY:	VM 09/01/2017	XX	21
UNOWN BY:	VM 09/01/2017	XX	21
CHECKED:	SAC 08/11/2017	1. UNLESS OTHERWISE SPECIFIED	
APPROVED:	PD 09/05/2017	2. UNLESS OTHERWISE SPECIFIED	
DATE:	09/12/2017	3. DIMENSIONAL TOLERANCES APPLY	
SCALE: NTS WEIGHT N/A LBS		SHEET 1 OF 1	
COPYRIGHT © 2017 BY DART AEROSPACE LTD.			
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

EN 17-149



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-01-R0.500  
DATE: 18/07/18

PO / BATCH NO.: P0040357/5091508

MATERIAL CERT REC'D: Yes  
QUANTITY RECEIVED: 12'  
QUANTITY INSPECTED: 12'  
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
THICKNESS RECEIVED: 0.500"  
SHEET SIZE ORDERED: —  
SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A681
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	P0040357
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>		SIGNED OFF BY: _____	
DATE: <u>18/07/18</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in